

## ***Supplementary Material for Biomedicines id:2223140***

### ***Article: Neurodifferentiation and neuroprotection potential of mesenchymal stromal cell-derived secretome produced in different dynamic systems***

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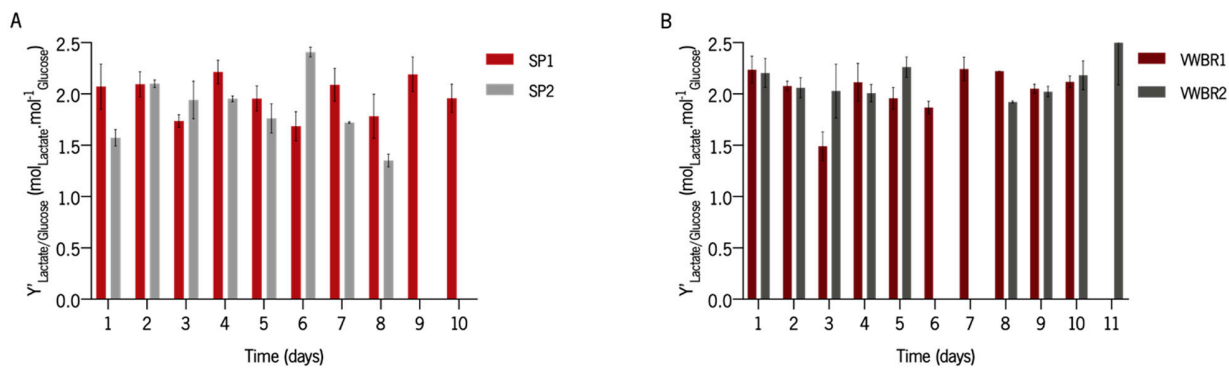
#### **1 Supplementary Table**

**Supplementary Table S1.** Statistical report. Effect sizes calculated using Lenhard, W. (2016), Uanhero, J. O. (2017), and [https://www.psychometrica.de/effect\\_size.html](https://www.psychometrica.de/effect_size.html). Effect size calculator available online at <https://effect-size-calculator.herokuapp.com/>.

<b>Figure</b>	<b>Statistical report</b>	<b>Sample size</b>
<b>4 B</b>	$F(2,155.566) = 29.911, p < 0.001, \omega^2 p = 0.267$	160 (per group)
<b>4 C</b>	$F(2,183.822) = 105.599, p < 0.001, \omega^2 p = 0.528$	160 (per group)
<b>5 A</b>	$F(3,73.496) = 24.690, p < 0.001, \omega^2 p = 0.478$	36 (per group)
<b>5 B</b>	$\chi^2 (3) = 38.223, p < 0.001, V = 0.297$	36 (per group)
<b>5 C</b>	CEP $\chi^2 (3) = 43.923, p < 0.001, V = 0.319$ ADE $\chi^2 (3) = 17.542, p < 0.001, V = 0.201$	36 (per group)

#### **2 Supplementary Figures**

**Supplementary Figure S1.** Average yield of lactate from glucose ( $Y'_{\text{Lac/Glc}}$ ). The  $Y'_{\text{Lac/Glc}}$  was determined throughout time for cultures in the (A) SP and in the (B) VWBR. Results are presented as mean  $\pm$  SD. SP, Spinner flask system; VWBR, Vertical-Wheel™ bioreactor; SD, standard deviation.



**Supplementary Figure S2.** Gating strategy for the MSC markers according to Dominici et al. 2006 [1]. Dot plots are representative from the VWBR cells. The same strategy was employed in all expansions systems. .

